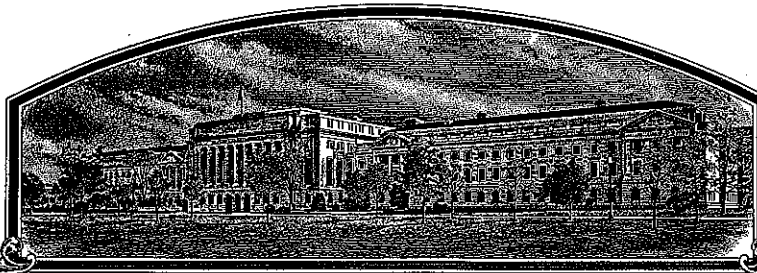


No.

200600031



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:
Golden's Foundation Seeds L. L. C.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'LH341'

*In Testimony Whereof, I have hereunto set my hand
and caused the seal of the Plant Variety
Protection Office to be affixed at the City of
Washington, D.C. this twenty-ninth day of April,
in the year two thousand and eight.*

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service


Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Holden's Foundation Seeds L.L.C.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME None		3. VARIETY NAME LH341	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 8350 Minnegan Road Waterman, IL 60556 U.S.A.		5. TELEPHONE (include area code) (815) 758-9281		FOR OFFICIAL USE ONLY PVPO NUMBER 200600031 FILING DATE Nov. 21, 2005	
		6. FAX (include area code) (815) 758-3117			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		9. DATE OF INCORPORATION August 27, 1999	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)				FILING AND EXAMINATION FEES: \$ 4382.00 DATE 11/21/05 CERTIFICATION FEE: \$ 768.00 DATE 4/15/08	
Timothy R. Kain 8350 Minnegan Road Waterman, IL 60556		Michael J. Roth 800 N. Lindbergh Blvd. St. Louis, MO			
11. TELEPHONE (include area code) (815) 758-9281		12. FAX (include area code) (815) 758-3117		13. E-MAIL trkain@monsanto.com	
14. CROP KIND (Common Name) Corn, Field		15. GENUS AND SPECIES NAME OF CROP Zea mays		16. FAMILY NAME (Botanical) Graminae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)			
20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 			SIGNATURE OF OWNER		
NAME (Please print or type) Timothy R. Kain			NAME (Please print or type)		
CAPACITY OR TITLE Patent Scientist		DATE 11/17/05		CAPACITY OR TITLE	
				DATE	

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Sold in U.S. — December 2004

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

EXHIBIT AOrigin and Breeding History
LH341

LH341 was developed from the cross of LH290 x LH283 by selfing and using the conventional ear-to-row system of plant breeding. Yield, stalk quality, root quality, disease tolerance, late plant greenness, late plant intactness, ear retention, pollen shedding ability, silking ability and corn borer tolerance were the criteria used to determine the rows from which ears were selected during the development of LH341.

LH290 and LH283 the progenitors of LH341, are proprietary field corn inbred lines of Holden's Foundation Seeds, L.L.C..

Summer 1997	The inbred line LH290 (a proprietary Holden's inbred) was crossed to the inbred line LH283 (proprietary Holden's inbred) in Iowa Field/Row 76437.
Summer 1998	The cross of LH290 x LH283 was crossed to the inbred line LH176 (proprietary Holden's inbred) and the S0 seed was grown and self-pollinated in nursery range/row 488 in Iowa.
Summer 1999	The S1 seed was grown and self-pollinated in nursery row 2831 in Minnesota.
Summer 2000	S2 ears were grown ear-to-row and self-pollinated in nursery range/row 11922 in Minnesota.
Winter 2000-2001	S3 ears were grown ear-to-row and self-pollinated in nursery row 8014 at Mexico.
Summer 2001	S4 ears were grown ear-to-row and self-pollinated in Minnesota in nursery row 13251.
Winter 2001-2002	S5 ears were grown ear-to-row and self-pollinated in nursery row 9408 at Mexico.
Summer 2002	S6 ears were grown ear-to-row and self-pollinated in nursery row 3525 at Minnesota.
Summer 2003	S7 ears were grown ear-to-row and self-pollinated in nursery row 4482 at Minnesota.
Summer 2004	S8 ears were grown ear-to-row and self-pollinated in Minnesota nursery row 1-10.
Winter 2004-2005	Final selection made in Hawaii field #05PA2B10 and line coded LH341.

Statement of Stability and Uniformity

LH341 has shown uniformity and stability for all traits described in Exhibit C. It has been self-pollinated and ear-rowed for five generations, with careful attention to uniformity of plant type to ensure homozygosity and phenotypic stability.

Statement of Variants

The line is stable, uniform and no variant traits have been observed or are anticipated in LH341.

EXHIBIT B

(revised)

Statement of Distinctness

Holden's Foundation Seeds L.L.C. believes that Corn Variety LH341 is most similar to Corn Variety LH290, an inbred developed by Holden's Foundation Seeds L.L.C.

Corn Variety LH341 differ from Corn Variety LH290 at the following traits:

Trait	LH341	LH290
Leaf Sheath Pubescence*	None (1)	Heavy (8)

* - scale from 1= none to 9= like peach fuzz

2005

Variety	Leaf Angle (degrees)	Tassel Branch Angle (degrees)
LH341	19.5 (Std Dev = 4.4, N= 10)	5.0 (Std Dev = 0.0, N= 10)
LH290	40.9 (Std Dev = 3.8, N= 10)	33.5 (Std Dev = 7.7, N= 10)
P_Val	0.000	0.000
Signif.	**	**

2006

Variety	Leaf Angle (degrees)	Tassel Branch Angle (degrees)
LH341	19.5 (Std Dev = 9.0, N=10)	11.5 (Std Dev = 2.4, N= 10)
LH290	42.9 Std Dev = 6.7, N=10)	34.0 (Std Dev = 9.0, N= 10)
P_Val	0.000	0.000
Signif.	**	**

Significance levels are indicated as: + = 10%, * = 5 %, ** = 1%

Corn variety LH341 has no leaf sheath pubescence, narrower leaf angle and a narrower tassel branch angle while comparative corn variety LH290 has heavy leaf sheath pubescence and wider leaf and tassel branch angle.

EXHIBIT B
(cont'd)

Description of Experimental Design

The corn varieties LH341, LH290 and CM105 were grown at the Waterman, IL observation nursery in years 2005-2006. The varieties were planted in 2 row plots with 15 plants per row in each of the three years. Trait data were collected on 10 random representative plants for most traits from each 2 row plot. Data on qualitative traits are usually collected on 10 plants from each 2 row plot. For Exhibit C all data were pooled and reported as means across the years for subject variety and the standard variety with standard deviation. The varieties are randomly planted in a 4.5 acre observation nursery which is located within a larger 18 acre field. Besides the observation nursery, this field consists of a research seed increase nursery and an IP seed inventory nursery. The location of each of these individual nurseries is rotated each year to a different location within the 18 acre field. Therefore subject inbreds are not planted adjacent to comparative or standard varieties and may be located in different areas of the larger field each year, therefore being influenced by spacial differences within the field. Growing conditions within the field are not uniform as there are some slight topographical variations such as lower areas which may accumulate and retain water or higher areas which are usually drier. The field is tiled and therefore a variety maybe planted close to a tile line while a comparative variety maybe planted further away and in a low spot within the field. Temporal varieties can exist as weather conditions from year to year can vary as well as planting dates can vary from year to year based on weather conditions. Weather conditions each year can vary the maturity rate of the varieties due to either favorable or unfavorable growing conditions.

Trait variability is not observed for each variety within its own test plot-plants are usually uniform and data are collected on the "most" representative plants- variability occurs due to spacial location of the test plot for that variety from year to year and to the temporal variation of weather conditions from year to year during the 2-3 years data are collected.

Waterman Research Station
Weather Data 2005-2006

Date	Average Precip. (mm)	Ave. Monthly Temp – Max. (F°)	Ave. Monthly Temp-Min (F°)	Ave. Monthly Rel. Humid.- Max (%)	Ave. Monthly Rel. Humid – Min (%)
June 2005	0.9	84.7	61.3	89.8	41.7
July 2005	2.0	84.9	61.7	93.4	44.7
August 2005	2.5	82.6	60.4	94.9	50.0
Sept 2005	1.8	79.9	55.0	94.3	44.3
June 2006	2.7	78.4	56.7	89.8	45.9
July 2006	2.3	84.2	64.6	93.5	55.4
August 2006	2.1	87.2	67.5	94.7	57.1
Sept 2006	1.6	80.0	61.6	90.1	50.8

Application Variety Data				Page 2		Standard Inbred Data		
5. LEAF:				Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
8 . 6	cm Width of Ear Node Leaf	0.9	30			7. 1	0.7	30
6 6. 9	cm Length of Ear Node Leaf	7.2	30			6 6. 7	9.6	30
5.4	Number of leaves above top ear	0.3	30			5. 7	0.6	15
2 0. 7	degrees Leaf Angle (measure from 2nd leaf above ear at anthesis to stalk above leaf)	7.1	30			4 7. 8	7.0	30
0 2	Leaf Color (Munsell code 5 GY 4/8)					0 2 (Munsell code 5 GY 4/8)		
1	Leaf Sheath Pubescence (Rate on scale from 1=none to 9=like peach fuzz)					2		
6	Marginal Waves (Rate on scale from 1=none to 9=many)					6		
6	Longitudinal Creases (Rate on scale from 1=none to 9=many)					5		
6. TASSEL:				Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
4.1	Number of Primary Lateral Branches	1.1	30			5. 3	1.2	30
8. 4	Branch Angle from Central Spike	3.6	30			3 3. 2	9.0	30
3 9. 6	cm Tassel Length (from top leaf collar to tassel tip)	2.7	30			3 4. 4	2.6	30
3.8	Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed)					6. 2		
0 9	Anther Color (Munsell code 10 R 7/8)					0 7 (Munsell code 2.5 Y 8/10)		
1 6	Glume Color (Munsell code 5 RP 6/6)					1 2 (Munsell code 2.5 R 5/8)		
1	Bar Glumes (Glume Bands): 1=Absent 2=Present					1		
7a. EAR (Unhusked Data):								
0 5	Silk Color (3 days after emergence) (Munsell code 2.5 GY 8/6)					0 7 (Munsell code 2.5 Y 8/10)		
0 2	Fresh Husk Color (25 days after 50% silking) (Munsell code 5 GY 4/8)					0 2 (Munsell code 5 GY 4/8)		
2 1	Dry Husk Color (65 days after 50% Silking) (Munsell code 2.5 Y 8/4)					2 1 (Munsell code 2.5 Y 8/4)		
1	Position of Ear at Dry Husk Stage: 1=Upright 2=Horizontal 3=Pendent					1		
8	Husk Tightness (Rate on scale from 1=very loose to 9=very tight)					9		
1	Husk Extension (at harvest): 1=Short (ears exposed) 2=Medium (<8 cm) 3=Long (8-10 cm beyond ear tip) 4=Very Long (>10 cm)					1		
7b. EAR (Husked Ear Data):				Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
1 2. 4	cm Ear Length	0.9	30			1 4. 0	1.6	30
3 7. 4	mm Ear Diameter at mid-point	3.3	30			3 8. 0	1.4	15
1 0 1.6	gm Ear Weight	4.4	30			7 3. 2	1.9	15
12.2	Number of Kernel Rows	1.3	30			1 3. 9	0.9	15
2	Kernel Rows: 1=Indistinct 2=Distinct					2		
1	Row Alignment: 1=Straight 2=Slightly Curved 3=Spiral					1		
9.8	cm Shank Length	1.5	30			6. 8	2.0	15
2	Ear Taper: 1=Slight 2=Average 3=Extreme					2		
Application Variety Data						Standard Inbred Data		
Note: Use chart on first page to choose color codes for color traits.								

200600031

Application Variety Data			Page 3		Standard Inbred Data		
8. KERNEL (Dried):			Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
9 .7	mm Kernel Length	2.1	30	0 9.2	1.0	15	
8 .5	mm Kernel Width	0.5	30	0 8.2	0.6	15	
5 .5	mm Kernel Thickness	1.4	30	0 5.1	1.2	15	
43.6	% Round Kernels (Shape Grade)	4.2	500g	5 6.8	2.6	500g	
1 Aleurone Color Pattern: 1=Homozygous 2=Segregating (describe) _____					1		
1 9 Aleurone Color (Munsell code Lighter than 2.5 Y 9/2)					1 9 (Munsell code Lighter Than 2.5 Y 9/2)		
0 8 Hard Endosperm Color (Munsell code 2.5 Y 7/10)					0 7 (Munsell code 2.5 Y 8/8)		
3 Endosperm Type: 1=Sweet (su1) 2=Extra Sweet (sh2) 3=Normal Starch 4=High Amylose Starch 5=Waxy Starch 6=High Protein 7=High Lysine 8=Super Sweet (se) 9=High Oil 10=Other _____					0 3		
2 4.8	gm Weight per 100 Kernels (unsized sample)	2.1	1800 seeds	2 2.5	2.6	2000 seeds	
9. COB:			Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
2 2.9	mm Cob Diameter at mid-point	1.4	30	2 6.2	1.3	15	
1 4 Cob Color (Munsell code 5 R 4/10)					1 4 (Munsell code 5 R 4/10)		
10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic):							
A. Leaf Blights, Wilts, and Local Infection Diseases							
<input type="checkbox"/> Anthracnose Leaf Blight (<i>Colletotrichum graminicola</i>) <input type="checkbox"/> Common Rust (<i>Puccinia sorghi</i>) <input type="checkbox"/> Common Smut (<i>Ustilago maydis</i>) <input type="checkbox"/> Eyespot (<i>Kabatiella zeae</i>) <input type="checkbox"/> Goss's Wilt (<i>Clavibacter michiganense</i> spp. <i>nebraskense</i>) <input type="checkbox"/> Gray Leaf Spot (<i>Cercospora zeae-maydis</i>) <input type="checkbox"/> Helminthosporium Leaf Spot (<i>Bipolaris zeicola</i>)..... Race _ <input type="checkbox"/> Northern Leaf Blight (<i>Exserohilum turcicum</i>)..... Race _ <input type="checkbox"/> Southern Leaf Blight (<i>Bipolaris maydis</i>)..... Race _ <input type="checkbox"/> Southern Rust (<i>Puccinia polysora</i>) <input type="checkbox"/> Stewart's Wilt (<i>Erwinia stewartii</i>) <input type="checkbox"/> Other (Specify) _____				7 Anthracnose Leaf Blight <input type="checkbox"/> Common Rust <input type="checkbox"/> Common Smut 6 Eyespot 5 Goss's Wilt 4 Gray Leaf Spot 8 Helminthosporium Leaf Spot..... Race 2 3 Northern Leaf Blight Race 1 6 Southern Leaf Blight Race 0 <input type="checkbox"/> Southern Rust 4 Stewart's Wilt <input type="checkbox"/> Other (Specify) _____			
B. Systemic Diseases							
<input type="checkbox"/> Corn Lethal Necrosis (MCMV and MDMV) <input type="checkbox"/> Head Smut (<i>Sphacelotheca reiliana</i>) <input type="checkbox"/> Maize Chlorotic Dwarf Virus (MCDV) <input type="checkbox"/> Maize Chlorotic Mottle Virus (MCMV) <input type="checkbox"/> Maize Dwarf Mosaic Virus (MDMV)..... Strain ____ <input type="checkbox"/> Sorghum Downy Mildew of Corn (<i>Peronosclerospora sorghi</i>) <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Corn Lethal Necrosis <input type="checkbox"/> Head Smut <input type="checkbox"/> Maize Chlorotic Dwarf Virus <input type="checkbox"/> Maize Chlorotic Mottle Virus <input type="checkbox"/> Maize Dwarf Mosaic Virus Strain ____ <input type="checkbox"/> Sorghum Downy Mildew of Corn <input type="checkbox"/> Other (Specify) _____			
C. Stalk Rots							
<input type="checkbox"/> Anthracnose Stalk Rot (<i>Colletotrichum graminicola</i>) <input type="checkbox"/> Diplodia Stalk Rot (<i>Stenocarpella maydis</i>) <input type="checkbox"/> Fusarium Stalk Rot (<i>Fusarium moniliforme</i>) <input type="checkbox"/> Gibberella Stalk Rot (<i>Gibberella zeae</i>) <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Anthracnose Stalk Rot <input type="checkbox"/> Diplodia Stalk Rot <input type="checkbox"/> Fusarium Stalk Rot <input type="checkbox"/> Gibberella Stalk Rot <input type="checkbox"/> Other (Specify) _____			
D. Ear and Kernel Rots							
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Application Variety Data				Standard Inbred Data			
Note: Use chart on first page to choose color codes for color traits.							

Application Variety Data	Page 4	Standard Inbred Data																																																																																																																																				
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INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested): <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;"></td> <td style="width: 20%; text-align: center;">Standard Deviation</td> <td style="width: 40%; text-align: center;">Sample Size</td> </tr> <tr> <td><input type="checkbox"/> Banks Grass Mite (<i>Oligonychus pratensis</i>)</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Corn Earworm (<i>Helicoverpa zea</i>)</td> </tr> <tr> <td><input type="checkbox"/> Leaf-Feeding</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Silk Feeding : _____ mg larval wt.</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Ear Damage</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Corn Leaf Aphid (<i>Rhopalosiphum maidis</i>)</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Corn Sap Beetle (<i>Carpophilus dimidiatus</i>)</td> <td></td> <td></td> </tr> <tr> <td colspan="3">European Corn Borer (<i>Ostrinia nubilalis</i>)</td> </tr> <tr> <td><input type="checkbox"/> 1st Generation (Typically Whorl Leaf Feeding)</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> 2nd Generation (Typically Leaf Sheath-Collar Feeding)</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Stalk Tunneling : _____ cm tunneled/plant</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Fall Armyworm (<i>Spodoptera frugiperda</i>)</td> </tr> <tr> <td><input type="checkbox"/> Leaf-Feeding</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Silk-Feeding : _____ mg larval wt.</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Maize Weevil (<i>Sitophilus zeamais</i>)</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Northern Rootworm (<i>Diabrotica barberi</i>)</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Southern Rootworm (<i>Diabrotica undecimpunctata</i>)</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Southwestern Corn Borer (<i>Diatraea grandiosella</i>)</td> </tr> <tr> <td><input type="checkbox"/> Leaf Feeding</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Stalk Tunneling : _____ cm tunneled/plant</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Two-spotted Spider Mite (<i>Tetranychus urticae</i>)</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Western Rootworm (<i>Diabrotica virgifera virgifera</i>)</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other (Specify) _____</td> <td></td> <td></td> </tr> </table>			Standard Deviation	Sample Size	<input type="checkbox"/> Banks Grass Mite (<i>Oligonychus pratensis</i>)			Corn Earworm (<i>Helicoverpa zea</i>)			<input type="checkbox"/> Leaf-Feeding			<input type="checkbox"/> Silk Feeding : _____ mg larval wt.			<input type="checkbox"/> Ear Damage			<input type="checkbox"/> Corn Leaf Aphid (<i>Rhopalosiphum maidis</i>)			<input type="checkbox"/> Corn Sap Beetle (<i>Carpophilus dimidiatus</i>)			European Corn Borer (<i>Ostrinia nubilalis</i>)			<input type="checkbox"/> 1st Generation (Typically Whorl Leaf Feeding)			<input type="checkbox"/> 2nd Generation (Typically Leaf Sheath-Collar Feeding)			<input type="checkbox"/> Stalk Tunneling : _____ cm tunneled/plant			Fall Armyworm (<i>Spodoptera frugiperda</i>)			<input type="checkbox"/> Leaf-Feeding			<input type="checkbox"/> Silk-Feeding : _____ mg larval wt.			<input type="checkbox"/> Maize Weevil (<i>Sitophilus zeamais</i>)			<input type="checkbox"/> Northern Rootworm (<i>Diabrotica barberi</i>)			<input type="checkbox"/> Southern Rootworm (<i>Diabrotica undecimpunctata</i>)			Southwestern Corn Borer (<i>Diatraea grandiosella</i>)			<input type="checkbox"/> Leaf Feeding			<input type="checkbox"/> Stalk Tunneling : _____ cm tunneled/plant			<input type="checkbox"/> Two-spotted Spider Mite (<i>Tetranychus urticae</i>)			<input type="checkbox"/> Western Rootworm (<i>Diabrotica virgifera virgifera</i>)			<input type="checkbox"/> Other (Specify) _____			<table style="width: 100%; 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COMMENTS (e.g. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D): <p>Heat Unit Calculation: $GDU = \frac{\text{Daily Max Temp } (<=86^{\circ}\text{F}) + \text{Daily Min Temp } (>=50^{\circ}\text{F})}{2} - 50^{\circ}\text{F}$</p> <p>Supplemental data provided for pollen shed, ear weight, % round kernels and weight per 100 kernels from 2006 production parent test data and 2006 seed inventory data. Supplemental data of quantitative traits for subject variety 'LH341' obtained from 2006 and 2007 seed inventory and production parent test.</p>																																																																																																																																						

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Holden's Foundation Seeds L.L.C.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER ()	3. VARIETY NAME LH341
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 8350 Minnegan Road Waterman, IL 60556 U.S.A.	5. TELEPHONE (include area code) (815) 758-9281	6. FAX (include area code) (815) 758-3117
7. PVPO NUMBER		200600031

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain ☒ YES ☐

9. Is the applicant (individual or company) a U.S. National or a U.S. based company? If no, give name of country ☒ YES ☐ NO

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

Corn Variety LH341 was originated and developed by a breeder employed by Holden's Foundation Seeds, L.L.C. By agreement between Holden's Foundation Seeds, L.L.C. and the breeder, all rights to any invention, discovery or development are assigned to Holden's Foundation Seeds, L.L.C. No rights to such invention, discovery or development are retained by the breeder.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

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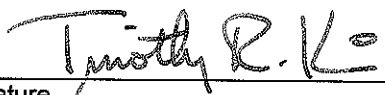
**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT F
DECLARATION REGARDING DEPOSIT**

NAME OF OWNER (S) Holden's Foundation Seeds LLC	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 8350 Minnegan Road, Waterman, IL 60556 USA	TEMPORARY OR EXPERIMENTAL DESIGNATION
NAME OF OWNER REPRESENTATIVE (S) Timothy R. Kain	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 8350 Minnegan Road, Waterman, IL 60556 USA	VARIETY NAME LH341 FOR OFFICIAL USE ONLY PVPO NUMBER 200600031

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature



Date

